| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |

Application/Control No.

10/050,175

Examiner

Stephen M. Brinich

Applicant(s)/Patent under Reexamination

KOJIMA ET AL.

Art Unit

2625

| 1 | Rejected |
|---|----------|
| = | Allowed  |

- (Through numeral)
Cancelled

Restricted

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla        | aim  | Date   |                |                |  | C1-          | Claim Date      |                 |              |          |          |          |              |           |          | $\neg$   |                           | aim       | Date     |               |          |               |          |          |          |   |  |          |  |                    |          |
|------------|--|--|----------------|----------------|--|--------------|-----------------|-----------------|--------------|----------|----------|----------|--------------|-----------|----------|----------|---------------------------|-----------|----------|---------------|----------|---------------|----------|----------|----------|---|--|----------|--|--------------------|----------|
|            | T  |  |                |                |  |              |                 | Date Claim Date |              |          |          |          |              |           | -        |          | 11111                     | Date      |          |               |          |               |          |          |          |   |  |          |  |                    |          |
| Final      | Original   | 7/30/07  |                |                |  |              |                 |                 |              |          | Final    | Original |              |           |          |          |                           |           |          |               |          | Final         | Original |          |          |   |  |          |  | <br> -<br> -<br> - |          |
| 1          | (1)  | =  | Т              |                | 1  | T            | 1               |                 |              |          |          | 51       |              |           |          | Г        |                           |           |          |               | _        |               | 101      |          | 1        | $\top$  | 1  | ╈        |  | $\vdash$           |          |
| 4          | 2  | ╘  | T              | 1              | 1  | t            | $\vdash$        |                 | <del> </del> |          | <b>—</b> | 52       | $\vdash$     |           | $\vdash$ | ┢        |                           |           |          |               | -        | -             | 102      | $\dashv$ | _        | +   | ╅  | ╁        | $\vdash$   | -                  | $\vdash$ |
| <u> </u>   | 18   | ╁  | ┼              | $\vdash$       | $\vdash$   | H            | +               | +               | +            | Н        |          | 53       | <del> </del> | -         |          |          |                           | $\dashv$  | $\dashv$ |               | $\dashv$ | -             | 103      | $\dashv$ | +        | +   | +  | +        | +  | ├—                 | $\vdash$ |
|            | <del>                                     </del> | ╁  | ├              | +-             | -  | -            | ╆               | ┿               | +-           | Н        | -        | 54       | ⊢            |           | $\vdash$ |          | -                         |           | $\dashv$ |               | -        | <b>}</b>      | 103      | $\dashv$ | -        |   | ╁  | +        | ╁  | -                  | H        |
|            | -1   | 1  | ├              | -              | ╁  | ⊢            | ┿               | -               | ┼            | Н        | -        |          |              |           | _        | <u> </u> | ⊢                         |           |          | -             |          | -             |          |          | -        | -   | +  | +        | -  |                    | Ш        |
| <u> </u>   | \$   | ⊢  | ⊢              | -              | ₩  | ├            | ┼               | ₩               | ₩            |          | -        | 55       | _            | _         | _        | <u> </u> | _                         | _         | $\dashv$ | _             | _        |               | 105      |          | _        |   | +-   |          | 느  | _                  |          |
| 2          | 6  | =  | _              | ┞              | <u> </u>   | <u> </u>     | —               | ╄               | <b>!</b>     | Ш        |          | 56       | _            |           |          | _        |                           |           | $\dashv$ |               | _        |               | 106      | $\dashv$ | _        | _   | ↓_   | ╀        | ↓  |                    |          |
| 3          | 0  | Ξ  | ╄              | ļ              | ļ  | <u> </u>     | ╄               | <u> </u>        | ₩            | Ш        | ļ        | 57       |              |           |          | _        | $ldsymbol{ldsymbol{eta}}$ | _         | _        |               | _        |               | 107      |          |          |   | _  | <u> </u> | L  |                    | Щ        |
|            | (1)  | _  | ├              | -              | ├  | _            | ╀               | <u> </u>        | <u> </u>     | Ш        | <u> </u> | 58       | _            |           |          |          |                           |           | _        | $\rightarrow$ | _        |               | 108      |          | _        | - -   | ┸  | ┸        | L  | L                  |          |
|            | 0  | _  | <u> </u>       | ļ              | <u> </u>   |              | 丄               | ┖               | <u> </u>     | Щ        | <u> </u> | 59       | L            | Щ         |          |          |                           |           |          |               | _        | L             | 109      |          | $\perp$  | $\bot$  | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | Ц_       | <u> </u>   |                    |          |
| <u> </u>   | 10   | <u> </u>   | 닏              | _              |  | ļ            | ļ               | ļ               | ╙            | Ш        |          | 60       |              |           |          |          |                           |           |          |               | ┙        |               | 110      |          |          |   | $\perp$  | <u> </u> | <u></u>  |                    |          |
| <u> </u>   | (1)  | _  | _              | _              | L  | _            |                 |                 | 1_           |          |          | 61       |              |           |          |          |                           |           |          |               | _        |               | 111      | L        | $\perp$  |   |  | <u>l</u> |  |                    |          |
| 5          | (12)   | =  | L              | _              |  |              | $oxed{oxed}$    | _               | <u> </u>     | Ш        | L        | 62       |              |           |          |          |                           |           |          |               |          |               | 112      |          |          |   |  |          |  |                    |          |
| 8          | 13   | =  |                | $oxed{oxed}$   |  |              | $\perp$         |                 |              |          |          | 63       |              |           |          |          |                           |           |          | $\Box$        |          |               | 113      |          |          |   |  |          |  |                    |          |
|            | 14   | L  |                |                | $\Box$   |              | L               |                 |              |          |          | 64       |              |           |          |          |                           |           |          |               |          |               | 114      |          |          | Т   | Г  |          |  |                    |          |
|            | 15   |  |                |                |  |              |                 |                 |              |          |          | 65       |              |           |          |          |                           |           |          |               | 7        |               | 115      |          |          | 1   |  |          |  |                    |          |
|            | 16   | Ι  |                |                |  |              |                 | Г               |              |          |          | 66       |              |           |          |          |                           |           |          |               |          |               | 116      | $\neg$   |          | $\top$  | $\top$   | Т        | $\vdash$   |                    |          |
| 6          | 17   | =  |                |                |  | П            |                 |                 |              |          |          | 67       |              |           |          |          |                           |           |          |               |          |               | 117      | $\neg$   | $\dashv$ | $\top$  | 1  | 1        | T  |                    |          |
| 7          | (18)   | =  |                | Π              | Π  |              |                 |                 |              |          |          | 68       |              |           |          |          |                           | $\neg$    | ヿ        |               | 1        |               | 118      |          | ┪        | +-  | T  | T        | <del>                                     </del> | $\vdash$           |          |
|            | (P)  |  |                |                |  |              |                 |                 | <b>—</b>     |          |          | 69       |              |           |          |          |                           |           | $\dashv$ |               | _        |               | 119      |          | $\top$   | +-  | +-   | t        |  |                    |          |
|            | (19)<br>20                                       |  | T              | 1              |  | Г            | $\vdash$        | 1               |              | _        |          | 70       |              |           | $\neg$   | _        |                           | $\dashv$  | $\neg$   | $\top$        | -        |               | 120      | $\dashv$ | +        | 1   | +  | ╁╴       | -  | $\vdash$           | $\dashv$ |
|            | 41   | $\vdash$   | <b></b>        | $\vdash$       |  |              |                 | 1               |              |          |          | 71       |              |           |          |          |                           | $\exists$ | -        | +             | -        |               | 121      | $\dashv$ | ╁        | ╅   | +  | ┿        | ├─   | Н                  | -        |
|            | (2)  | <del>                                     </del> |                |                |  | Т            | ┢               |                 | -            | $\dashv$ |          | 72       |              |           |          | _        |                           | -         | $\dashv$ |               | $\dashv$ |               | 122      |          | +        | -   | ┼  | +        | -  |                    | $\dashv$ |
|            | 23   | 1  | t              |                | <del> </del>                                     |              | $\vdash$        | <u> </u>        | f            |          |          | 73       | H            |           | -        | _        |                           | _         | $\dashv$ |               | $\dashv$ | <del></del>   | 123      | -+       | +-       | ╁   | ╁  | +-       | $\vdash$   |                    | Н        |
|            | 24   | <del>                                     </del> | ┢╌             | -              | <del> </del>                                     | $\vdash$     | ╁               | ┢               | ┢            | $\dashv$ |          | 74       |              | $\vdash$  | $\dashv$ |          | $\dashv$                  | -         | $\dashv$ |               | -        | $\vdash$      | 124      |          | ╁        | +-  | ╁╌   | ╁        | 1  |                    | Н        |
| <u> </u>   | 25   | $\vdash$   | ├              | $\vdash$       | <del>                                     </del> | -            | ╁               | ├               | $\vdash$     | $\dashv$ |          | 75       | Н            |           | $\dashv$ |          | _                         |           | $\dashv$ | -+            | $\dashv$ | <b>—</b>      | 125      |          | -        | ╁   | ╁  | +-       | ⊢  | Н                  | -        |
|            | 26   |  | ┢              | -              |  | -            | ╁               | $\vdash$        | 1            | -        | -        | 76       | Н            | $\vdash$  | $\dashv$ |          | $\dashv$                  |           | +        |               | -        | <b>—</b>      | 126      | $\dashv$ | +        | +-  | ╀  | ╀        | <del>  -</del>                                   | $\vdash$           |          |
|            | 27   |  | ├─             | -              |  | -            | ┢               | ⊢               | H            | -        | <u> </u> | 77       |              | $\vdash$  |          |          |                           |           | $\dashv$ | -             | -        | <u> </u>      | 127      | $\dashv$ | +        | +-  | ╀  | ╄        |  |                    | _        |
|            | 28   |  | -              | ├              | -  | -            | ⊢               | ⊢               | -            | $\dashv$ | -        | 78       | $\vdash$     |           | -        | -        |                           | $\dashv$  | $\dashv$ | -             | 4        | <u> </u>      |          |          | +-       | -   | ╀-   | ┼        | $\vdash$   |                    |          |
|            | 29   |  | -              | ├              | ├—   |              | ├               | _               |              |          |          | 79       | Н            | -         |          |          | -                         | $\dashv$  | $\dashv$ | -+            | 4        | <u> </u>      | 128      |          | -        | _   | <u> </u>   | ┼        | Ш  |                    | _        |
| $\vdash$   | 30   | <del> </del>                                     | -              | ⊢              | -  | <del> </del> | ⊢               | -               | $\vdash$     | $\dashv$ |          |          | Н            |           | $\dashv$ |          | -                         | -         |          | _             | 4        |               | 129      | _        | +        | -   | <u> </u>   | ╄        | 1  | Щ                  | _        |
| <u> </u>   | 31   | -  |                | ⊢              | -  | <u> </u>     | ⊢               |                 |              | $\dashv$ |          | 80       | Н            |           | _        |          | -                         |           | -        |               | 4        |               | 130      |          | 4        | 4_  | _  | ↓_       | Щ  |                    |          |
|            |  | <del> </del>                                     | ┢              | _              | <del> </del>                                     | <u> </u>     | ļ               |                 |              |          | -        | 81       | -            | Ш         | $\dashv$ |          |                           |           | _        | $\dashv$      | 4        | L             | 131      |          | 4        |   | ┺  | <u> </u> |  |                    | _        |
|            | 32   | $\vdash$   |                | <del> </del> - | <u> </u>   | _            | ├               | ┝               | $\vdash$     |          |          | 82       |              | _         | $\dashv$ | _        | _                         |           | -        | _             | 4        |               | 132      | _        | _        | _   | _  | <u> </u> | Ш  |                    |          |
| <u> </u>   | 33   | <del> </del>                                     | -              |                | _  |              | ├_              | <u> </u>        | Н            | _        | -        | 83       |              | _         |          | _        | $\dashv$                  | 4         | _        |               | 4        |               | 133      |          | 4        |   | ↓_   | ┖        | Ш  |                    |          |
|            | 34   | ├  | <del> </del> — |                | <u> </u>   | -            | 1-              | <del> </del>    | $\vdash$     | $\dashv$ | <b> </b> | 84       | Н            |           | _        | $\dashv$ | _                         | 4         | _        |               | $\dashv$ | <u> </u>      | 134      | _        | $\bot$   | 4   | -  | 1        | Ш  |                    |          |
|            | 35   | _  | -              | <del> </del>   | <u> </u>   |              | <u> </u>        | <u> </u>        | Н            |          |          | 85       | -            |           | _        |          | _                         | _         | _        | _             | 4        |               | 135      |          |          | ╄   | ↓_   | <u> </u> | Ш  |                    |          |
| $\vdash$   | 36   | <del> </del> —                                   | <del> </del>   | $\vdash$       | $\vdash$   | <u> </u>     | <u> </u>        | H               | Ш            | _        |          | 86       | -1           | $\square$ | _        |          | _                         |           | _        | _             | 4        | $\perp \perp$ | 136      | $\perp$  | 1        | $\perp$   | 1  | 1        | Ш  |                    |          |
|            | 37   |  | <u> </u>       | L              | <u> </u>   | ļ            | <del>  _ </del> | <u> </u>        | Ш            | _        |          | 87       |              | _         |          |          |                           | _         |          |               | _[       |               | 137      | $\perp$  | $\perp$  | 1_  | _  | <u>L</u> | Ш  |                    |          |
|            | 38   | -  | <u> </u>       | <u> </u>       | Щ  |              | <u> </u>        | <u> </u>        |              |          | <u> </u> | 88       |              |           |          |          |                           |           |          |               |          |               | 138      | ot       |          |   |  | 丄        | Ш  |                    |          |
| <u> </u>   | 39   | <u> </u>   | <u> </u>       |                | Щ  | _            | <u> </u>        | <u> </u>        |              |          | <u> </u> | 89       |              |           |          |          |                           | $\perp$   |          | $\perp$       | _        |               | 139      |          |          |   | L  |          |  |                    |          |
| igsquare   | 40   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | <u> </u>       |                |  |              |                 |                 | Ш            |          |          | 90       |              |           | [        |          | [                         | [         |          | $\Box$        |          |               | 140      |          |          | $oldsymbol{ol}}}}}}}}}}}}}} $ | Γ  |          |  |                    |          |
|            | 41   |  |                | <u> </u>       |  |              |                 |                 | Ш            |          |          | 91       |              |           |          |          | $\Box$                    |           |          |               |          |               | 141      |          |          | $\Gamma$  | Г  |          |  |                    | $\neg$   |
| otacluster | 42   |  |                |                |  |              |                 |                 | Ш            |          |          | 92       |              |           |          | $\Box$   |                           | $\Box$    |          |               |          |               | 142      |          |          | Ι   |  |          |  |                    | $\neg$ 1 |
|            | 43   | L  |                | Ш              |  |              |                 |                 | $\square$    |          |          | 93       |              | $\Box$    |          | $\Box$   |                           |           |          |               | _]       |               | 143      |          |          | Τ   |  |          |  | $\neg$             | $\neg$   |
| ш          | 44   |  |                |                |  |              |                 |                 | ot           |          |          | 94       | [            |           | $\Box$   |          | 7                         | T         |          |               |          |               | 144      |          | T        | 1   |  |          |  | ヿ                  | ヿ        |
|            | 45   |  |                |                |  |              |                 |                 |              |          |          | 95       |              |           |          | 7        |                           |           |          |               |          |               | 145      | $\top$   |          | Τ   | Г  |          | П  | T                  | $\neg$   |
|            | 46   |  |                |                |  |              |                 |                 |              |          |          | 96       |              |           |          |          |                           |           |          |               |          |               | 146      |          |          | 1-  | Γ  |          |  | $\neg$             | $\neg$   |
|            | 47   |  |                |                |  |              |                 |                 |              | _]       |          | 97       |              |           | $\Box$   |          |                           |           |          |               |          |               | 147      |          | $\top$   | 1   | T  |          | $\Box$   | T                  | $\neg$   |
|            | 48   |  |                |                |  |              |                 |                 |              |          |          | 98       |              |           | $\Box$   |          |                           |           | T        | $\top$        | 7        |               | 148      |          | Т        |   | П  |          | $\Box$   |                    | $\dashv$ |
|            | 49   |  |                |                |  |              |                 |                 |              |          |          | 99       |              |           |          | $\Box$   |                           |           |          |               |          |               | 149      |          | T        | 1   |  | 1        | П  |                    | $\dashv$ |
|            | 50   |  |                |                |  |              |                 |                 | ıΠ           | 1        |          | 100      | $\neg$       | $\neg$    | T        |          | $\Box$                    | T         | T        |               | 7        |               | 150      | 1        |          | $\top$  | Τ.   | T        | $\Box$   |                    | ヿ        |